

GB2101084

Publication Title:

Roll dispenser

Abstract:

Abstract of GB2101084

A dispenser 10 for a roll of material wherein the spindle 16 is so shaped and/or arranged as to engage the internal surface of a roll over only part of the length of the spindle. Thus the roll can be turned on the spindle without undue resistance but on the other hand some frictional resistance is provided which prevents the roll "freewheeling" around the spindle. The spindle 16 either carries or is formed with one or more rings, or has a wavy or zig-zag shape the points of which zig-zags or waves engage the inner surface of the roll or core.

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(56) Documents cited

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(58) Field of search

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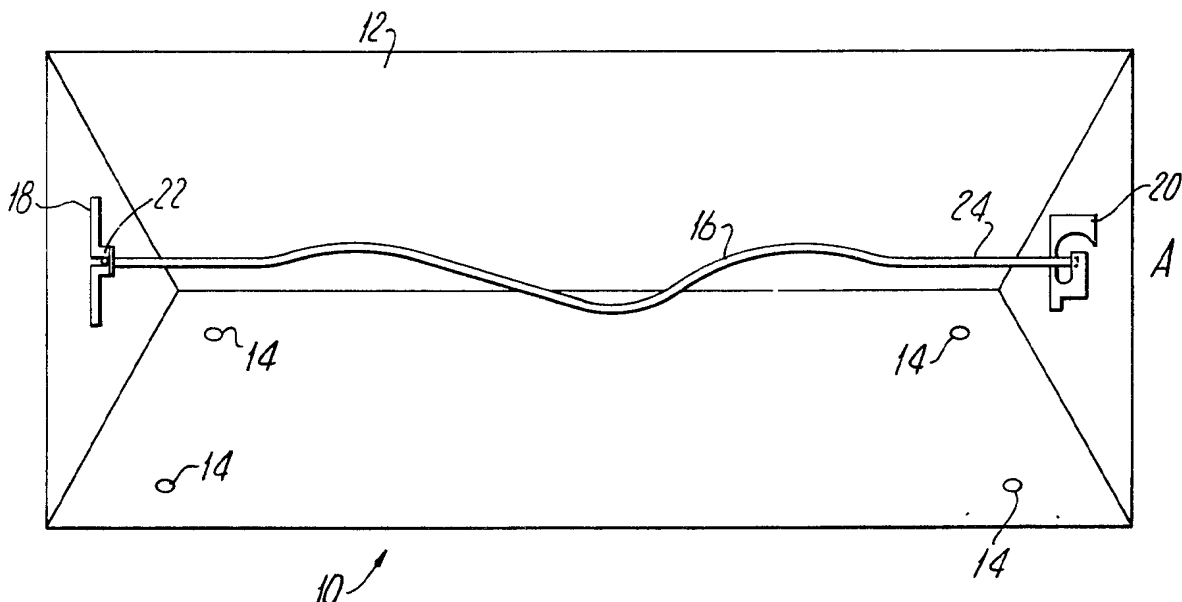
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tance but on the other hand some frictional resistance is provided which prevents the roll "freewheeling" around the spindle. The spindle 16 either carries or is formed with one or more rings, or has a wavy or zig-zig shape the points of which zig-zags or waves engage the inner surface of the roll or core.

(54) Roll dispenser

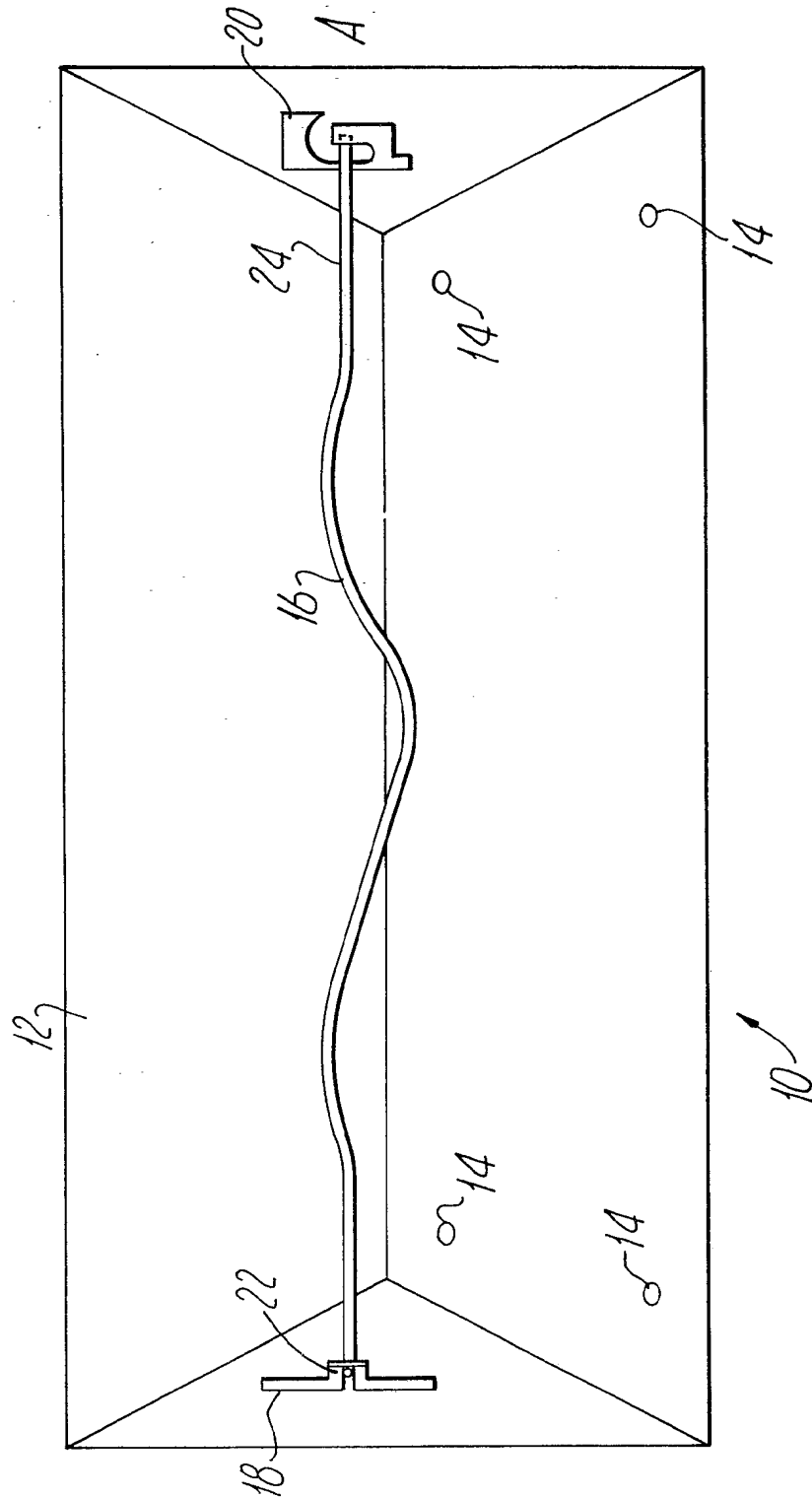
(57) A dispenser 10 for a roll of material wherein the spindle 16 is so shaped and/or arranged as to engage the internal surface of a roll over only part of the length of the spindle. Thus the roll can be turned on the spindle without undue resis-

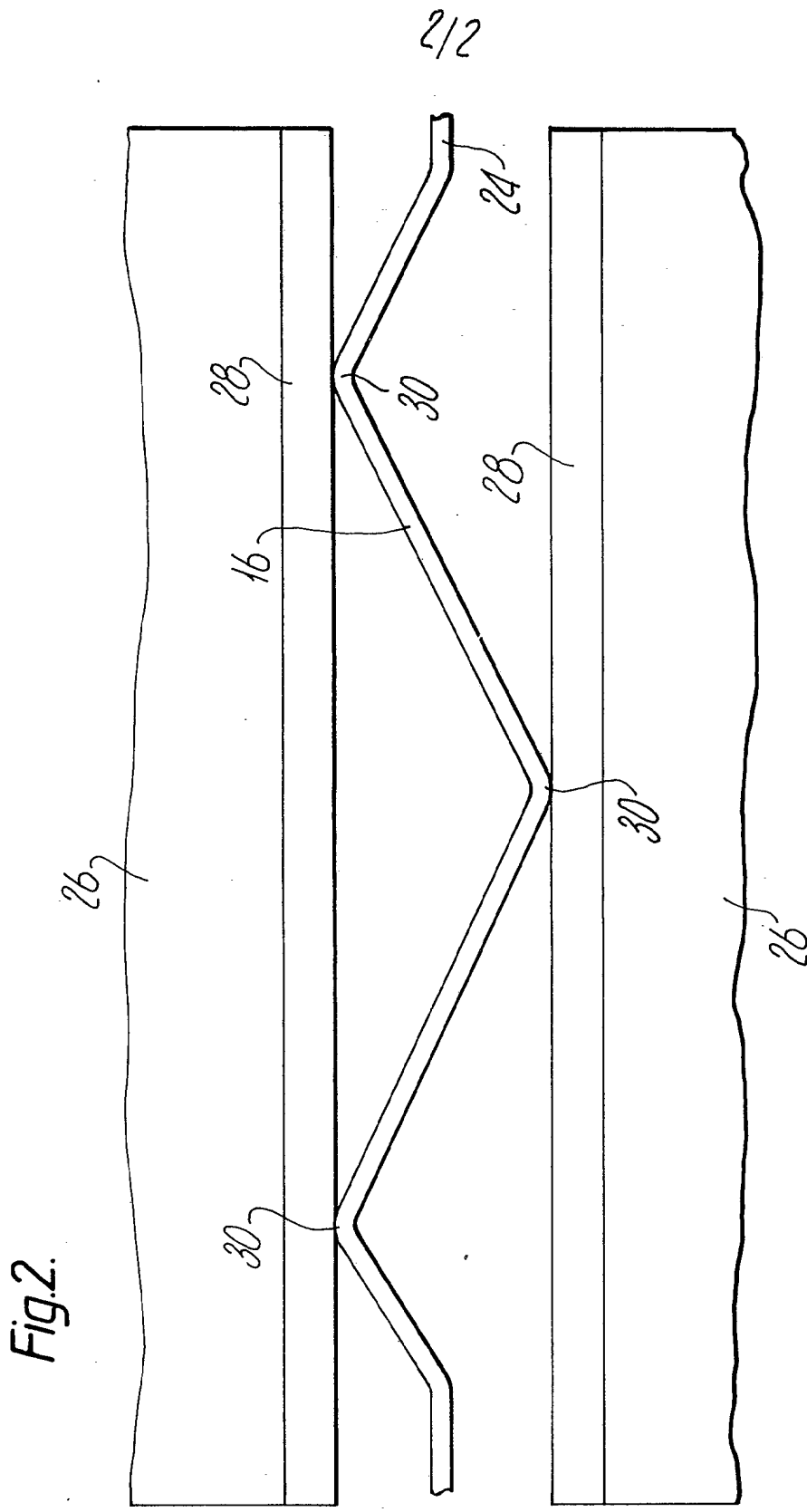
Fig.1.



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Fig.1.





SPECIFICATION

Roll dispenser

5 This invention relates to dispensers and particularly to dispensers for roll material, e.g., towels or wipers. Such dispensers often incorporate a spindle on which the roll of material may be supported. The material of the roll is
 10 dispensed by pulling the free end causing the roll to rotate about the spindle. This leads to problems since if the spindle has a dimension designed to contact the interior surface of the roll or roll core then it is difficult to rotate the
 15 roll and the material may tear. If on the other hand the spindle is designed to be a loose fit within the roll or roll core then the roll can "freewheel" about the spindle thus dispensing an excessive length of material.

20 It is the general object of the invention to obviate this problem.

A dispenser in accordance with the invention has a fixed spindle which is so shaped and/or arranged as to engage the internal
 25 surface of a roll, or roll core, which roll is dimensioned to be mounted in the dispenser, over only a part of the length of the spindle. Thus when the free end of the material of the roll is pulled the roll is neither held back by
 30 significant frictional forces between the spindle and the roll or core interior but on the other hand the friction between the parts of the spindle which contact the roll or core is sufficient to stop the roll "freewheeling".

35 The spindle may be of uniform diameter but have one or more rings secured to it to provide the spindle parts of layer overall effective diameter but preferably the spindle is of rod material and is bent into a wavy or zig-zag
 40 shape, the points of the waves of zig-zags being intended to engage the inner surface of the roll or core.

The invention will now be further described by way of example with reference to the accompanying drawings in which:-

45 *Figure 1* is an underneath view of one embodiment of dispenser in accordance with the invention; and

50 *Figure 2* is a detailed view of the spindle of Fig. 1.

Referring to Fig. 1, a dispenser 10 is shown for a roll of disposable wipers for example, those for use in washing up, wet wiping, surface wiping, drying and polishing. The
 55 dispenser 10 comprises a housing 12 which is mounted on a wall through a number of holes 14, and a spindle 16 one end of which is pivotally mounted inside the housing 12 at 18 and the other end of which is detachably
 60 mounted at a catch 20. The support 18 includes a pin 22 about which the spindle 16 can rotate so that when the outer end 24 of the spindle 16 is detached from the catch 20, the spindle can drop down about the pin 22
 65 below the housing 12, to allow a roll of

disposable wipers to be placed on the spindle and be positioned inside the housing on re-connecting the free end of the spindle to the catch 20.

70 The spindle 16 is shown in more detail in Fig. 2 supporting an 18 inch roll 26 of disposable wipers around a core 28. The spindle 16 is of zig-zag or W-shaped configuration and has three outer points 30 which
 75 are at a greater radial distance from the longitudinal axis of the spindle than the remainder of the spindle 16.

The dimensions of the spindle are chosen so that the radial distance of these points 30
 80 is the same as or slightly smaller than, the inner radius of the core 28 of the roll to be dispensed, so that when a portion of the free end of the roll of disposable wipers is pulled downwardly from the housing to dispense
 85 wipers from the roll, the roll does not thereafter continue to rotate and give out further amounts of disposable wipers. This is because the W-shaped spindle provides sufficient friction against the core by means of the outer
 90 points 30.

CLAIMS

1. A dispenser for a roll of material, the dispenser having a fixed spindle which is so
 95 shaped and/or arranged as to engage the internal surface of a roll, or roll core, which is dimensioned to be mounted in the dispenser, over only a part of the length of the spindle.

2. A dispenser as claimed in Claim 1
 100 wherein the spindle is substantially of a relatively small diameter but carries or is formed with, one or more rings having a relatively large diameter.

3. A dispenser as claimed in Claim 1 in
 105 which the spindle is of relatively small diameter and is bent into a wavy or "zig-zag" shape the points of the waves or "zig-zags" being designed to engage the inner surface of the roll or core.

110 4. A dispenser substantially as herein before described with reference to the accompanying drawings.

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